

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P170621

Luminaire Tested: **LDA4A09827D010TE LAR25NF 4LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P170621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26142)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A09827D010TE LAR25NF 4LFC1  
Description: PORTFOLIO 4" Flat Cone, Self-flange Trim Ring, 25° Narrow Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 989.2 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.47  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

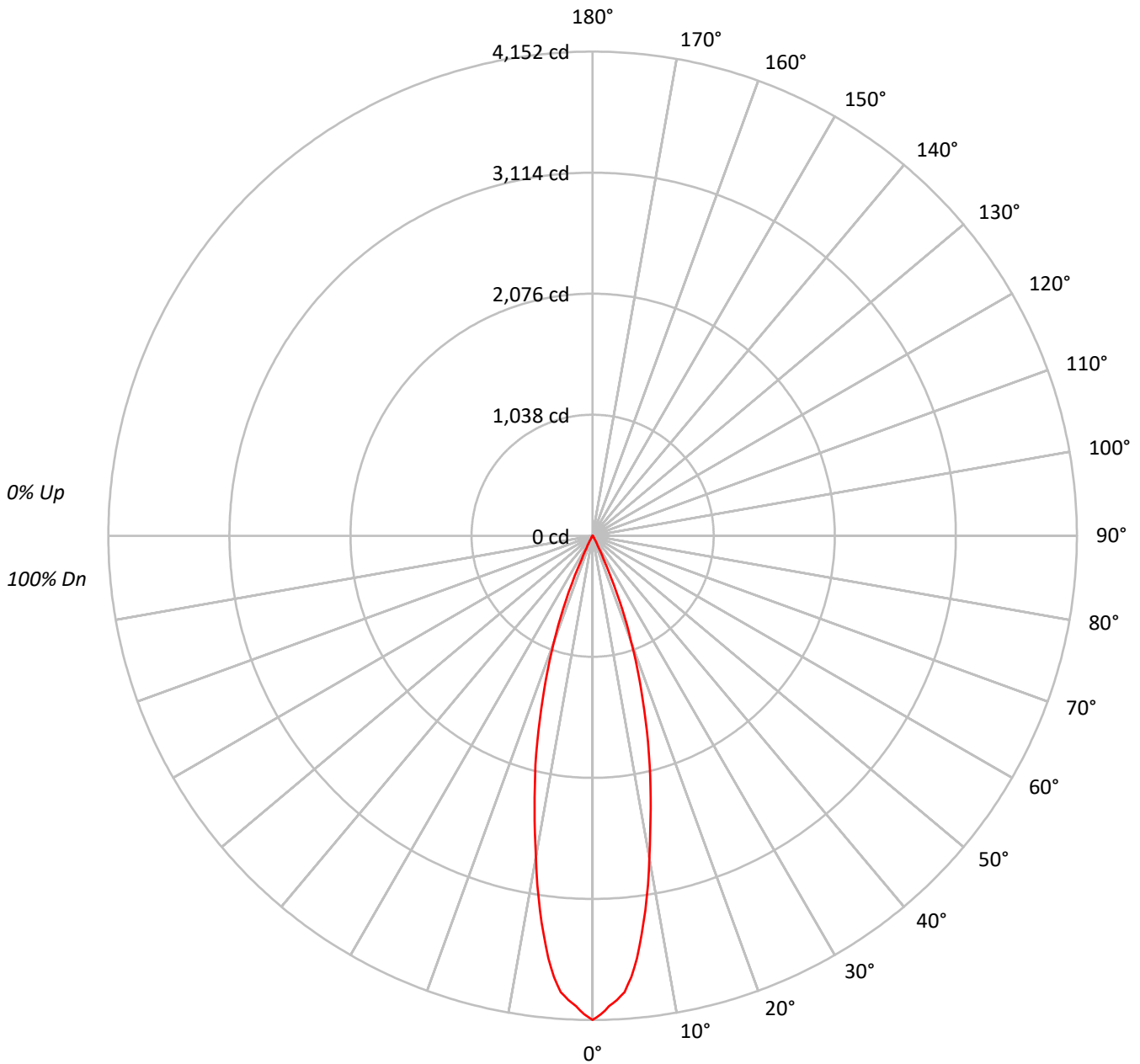
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10		0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	115	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97			97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94			94
3	108	104	100	97	106	102	99	96	100	97	95	98	95	94	95	94	92	91			91
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88			88
5	102	96	92	89	100	95	92	89	94	91	88	92	89	87	91	89	87	86			86
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83			83
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	81			81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79			79
9	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	79	77	76			76
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74			74

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	512082
5°	470256
10°	351284
15°	233992
20°	126746
25°	30241
30°	7079
35°	2018
40°	692
45°	244
50°	96
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.1	33.3
10°-20°	496.3	50.2
20°-30°	151.5	15.3
30°-40°	10.9	1.1
40°-50°	1.3	0.1
50°-60°	0.1	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	977.0	98.8
0°-40°	987.9	99.9
0°-60°	989.2	100.0
0°-90°	989.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4152	
5°	3798	329
15°	1832	496
25°	222	152
35°	13	11
45°	1	1
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4151.6
1°	4104.8
2°	4037.4
3°	3986.8
4°	3922.3
5°	3798.0
6°	3641.8
7°	3446.4
8°	3244.7
9°	3029.7
10°	2804.7
11°	2590.2
12°	2393.8
13°	2205.5
14°	2024.0
15°	1832.4
17.5°	1376.5
20°	965.6
22.5°	602.5
25°	222.2
27.5°	89.8
30°	49.7
32.5°	24.8
35°	13.4
37.5°	7.6
40°	4.3
42.5°	2.4
45°	1.4
47.5°	0.5
50°	0.5
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)